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EPA 63900504		POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT		I. IDENTIFICATION	
01 SITE NAME (Legal, common, or descriptive name of site)		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER		01 STATE	02 SITE NUMBER
Revere Copper & Brass		S. Sherman St.		IL	FLN005078274
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Clinton	IL	61727	Dewitt	039	21
09 COORDINATES LATITUDE		LONGITUDE		09 CLINTON quad 144	
40 08 00.0		08 57 00.0			
10 DIRECTIONS TO SITE (Starting from nearest public road)					
South east side of Clinton					
III. RESPONSIBLE PARTIES					
01 OWNER (If known)		02 STREET (Business, mailing, residential)			
Revere Copper & Brass Inc		605 Third Ave			
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER		
New York	NY	10158	(212) 935-3111		
07 OPERATOR (If known and different from owner)		08 STREET (Business, mailing, residential)			
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER		
			()		
13 TYPE OF OWNERSHIP (Check one)					
<input type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL					
<input type="checkbox"/> F. OTHER: _____ <input type="checkbox"/> G. UNKNOWN					
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)					
<input checked="" type="checkbox"/> A. RCRA 3001 DATE RECEIVED: 11/19/80 <input checked="" type="checkbox"/> B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: 6/11/81 <input type="checkbox"/> C. NONE					
MONTH DAY YEAR MONTH DAY YEAR					
IV. CHARACTERIZATION OF POTENTIAL HAZARD					
01 ON SITE INSPECTION		BY (Check all that apply)			
<input checked="" type="checkbox"/> YES DATE 5/18/79		<input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR			
<input type="checkbox"/> NO		<input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____			
MONTH DAY YEAR		(Specify)			
10/12/84		CONTRACTOR NAME(S): _____			
02 SITE STATUS (Check one)		03 YEARS OF OPERATION			
<input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		1964			
		BEGINNING YEAR ENDING YEAR			
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED					
Sludges (toxic/persistent) acids (corrosive)					
heavy metals (toxic/persistent)					
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION					
Surface water (environment)					
groundwater (population/environment)					
EPA Region 5 Records Ctr.					
					
315361					
V. PRIORITY ASSESSMENT					
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)					
<input type="checkbox"/> A. HIGH (Inspection required promptly) <input checked="" type="checkbox"/> B. MEDIUM (Inspection required) <input type="checkbox"/> C. LOW (Inspect on time available basis) <input type="checkbox"/> D. NONE (No further action needed, complete current disposition form)					
VI. INFORMATION AVAILABLE FROM					
01 CONTACT		02 OF (Agency/Organization)		03 TELEPHONE NUMBER	
Anthony B. Taubert		Revere		(212) 935-3111	
04 PERSON RESPONSIBLE FOR ASSESSMENT		05 AGENCY		06 ORGANIZATION	
She Murphy		IEPA		HSCS	
		07 TELEPHONE NUMBER		08 DATE	
		(212) 782-9848		2/1/85	
				MONTH DAY YEAR	



I HIGHLY VOLATILE
J EXPLOSIVE
K REACTIVE
L INCOMPATIBLE
M NOT APPLICABLE

Agency files - Air - water - land - Plws
phone call - Anthony Taubert - Revere



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL 14100578274

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 8,500 04 NARRATIVE DESCRIPTION

Possible contamination of groundwater from contaminated surface water and from on site ponds and old impoundments

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☒ OBSERVED (DATE: Monthly) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 411K 04 NARRATIVE DESCRIPTION

Data from monthly tests of discharge to Coon Creek show limits regularly exceeded for Fe, Cu, Zn, Cr and TSS. No intakes within 2 mi.

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☒ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 8,100 04 NARRATIVE DESCRIPTION

ON site use and storage of toxics and heavy metals

01 ☒ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 70 (Acres) 04 NARRATIVE DESCRIPTION

ON site use and storage of toxics and heavy metals

01 ☒ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 8,500 04 NARRATIVE DESCRIPTION

Possible contamination of groundwater from contaminated surface water and from on-site ponds and old impoundments,

01 ☒ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 450 04 NARRATIVE DESCRIPTION

01 ☒ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 8,500 04 NARRATIVE DESCRIPTION

Possible groundwater contamination.



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL 141 005 78 274

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Spills/runoff/standing liquids/leaking drums)

02 ☒ OBSERVED (DATE: 6/19/81)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: UNK

04 NARRATIVE DESCRIPTION

acid crystals stored on ground,
1,000 gal. release of Copper Sulfate

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 8,500

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)

Agency files - Air - water - land - plus
phone call Anthony Taubert - Revere

EXECUTIVE SUMMARY

Revere Copper & Brass Inc., ILD005078274, on the southeast side of Clinton, Illinois manufactures chrome and copper clad stainless utensils, copper tubing and metal stampings. Hazardous wastes generated at the facility are mercurous nitrate, copper and chrome plating solutions, stripping and brightening solutions and waste water treatment (wwt) sludge.

Three of the wastes (spent copper plating solution, spent stripping solution and spent brightening solution) are sent through one of two reclaiming tanks which electrically remove some of the metals which are then sold. Water from the reclaim tanks goes to the wwt system. In the wwt system the waste water is neutralized, metals are precipitated out and removed. The effluent discharges to two on-site lagoons before entering a surface ditch that joins Coon Creek. Concentrations of copper, zinc, chromium, iron and TSS in the effluent have regularly exceeded amounts allowed in 35 Ill. Adm Code 302.208. Enforcement action by IEPA-DWPC is pending for these violations. DAPC permits have also been issued and show the facility is not considered a major air pollution source.

A final NPDES permit was issued January 10, 1985 and will expire July 1, 1989 for discharges of storm and non-contact cooling water and metal finishing process waste water to the ditch. The permit requires testing be done for PCBs, metals, fats, cyanide, total toxic organics, total suspended solids and pH.

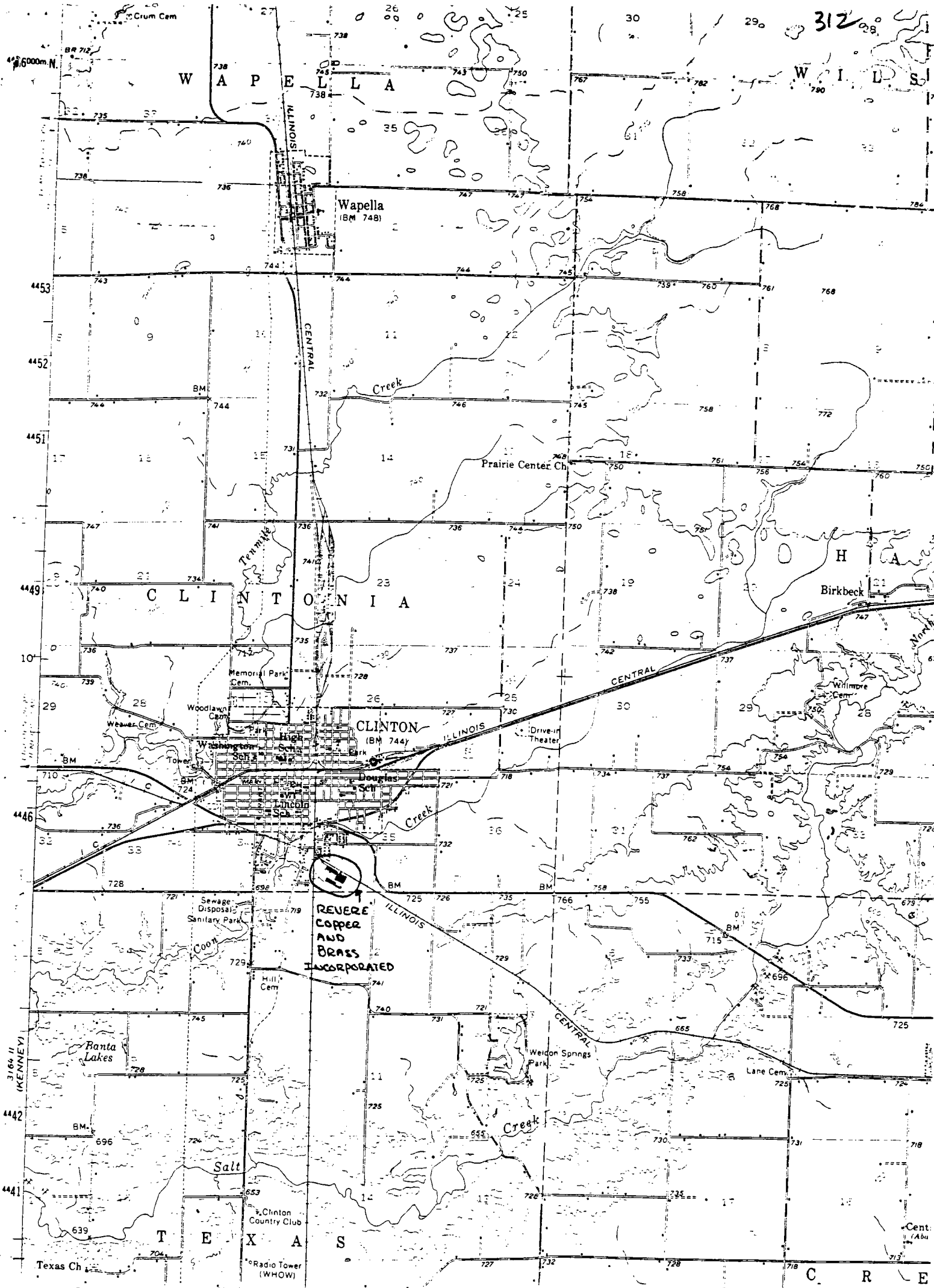
The spent chrome solution is sent to a pretreatment unit which adjusts the low pH and converts the hexavalent chrome to trivalent. It is then released to wwt. Mercurous nitrate waste is presently sent off-site, but Revere is considering a program for on-site reclamation of the mercury.

Wwt sludge is placed in a filter press to remove excess water and deposited in open containers and sent off site. Sludge is stored east of the mill plant. Two upright tanks of spent copper plating solution are on the north side of the site and drums of mercury waste are stored inside the plant.

It should be noted that IEPA inspection notes of March 1, 1984 refer to the fact that the inspector learned on that date that Revere had at one time maintained two surface impoundments in the northeast region of the plant property for the spent plating solutions. Closure was said to have taken place some time before the RCRA regulations were in place.

Water for Clinton residents is supplied from municipal wells 300-350 ft. deep and some shallow private wells. The area experiences problems with high iron, odorous water which IEPA-DPWS believes is caused by the geologic formation of the aquifer. It may or may not be worthy of note that Anthony Taubert Chief Chemist of Revere is also the Clinton Commissioner of Public Works.

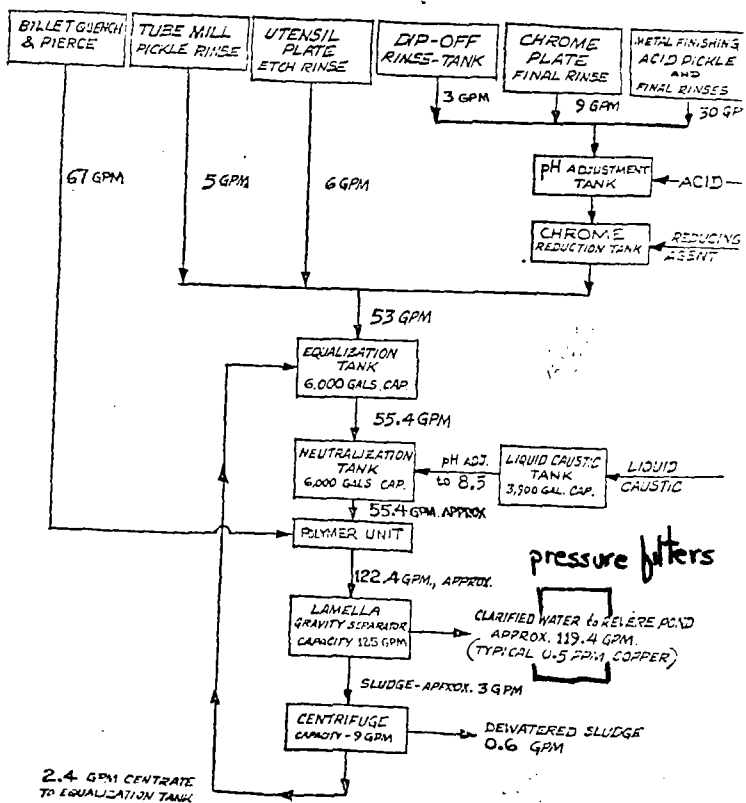
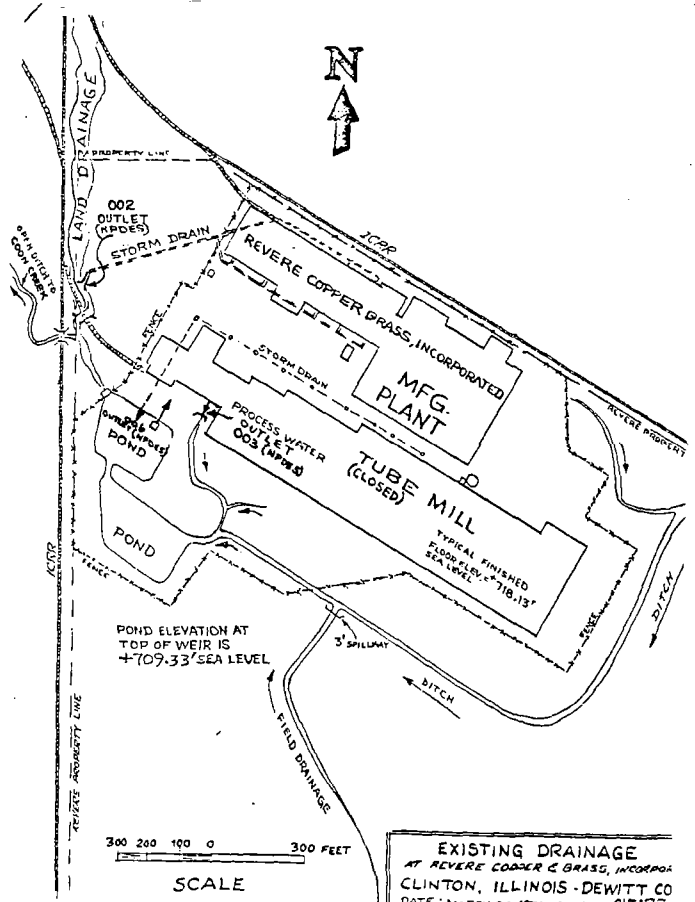
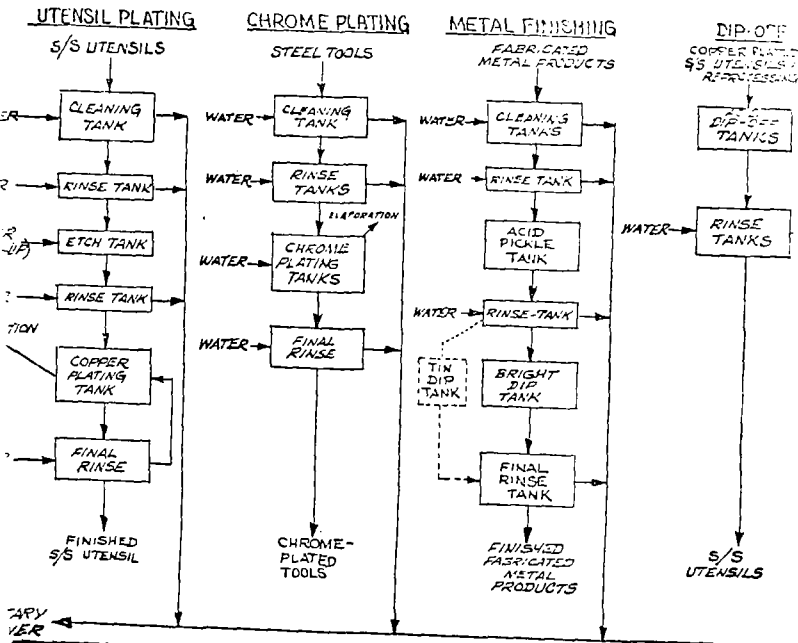
A medium priority for assessment is recommended for this site because of the large quantity of hazardous materials on site and the frequent violations of effluent to the creek. It is recommended that the FIT contractor investigate the existence of and possible contamination from the closed surface impoundments.



REVERE
COPPER
AND
BRASS
INCORPORATED

P. Flow Diagram of Waste Sources and Treatment Process (Include design flow):

1977-EA-2479 day - .127 mgd; dm - .144 mgd
 1977-EA-2479-1 day - .0864 mgd; dm - .1728 mgd



EXISTING DRAINAGE
 AT REVERE COPPER & BRASS, INCORPORATED
 CLINTON, ILLINOIS - DEWITT CO
 DATE: MARCH 22 1976 DWG NO. CLT-173